

**CPC****COOPERATIVE PATENT CLASSIFICATION****D02J**

**FINISHING OR DRESSING OF FILAMENTS, YARNS, THREADS, CORDS, ROPES OR THE LIKE** (curling or crimping [D02G](#); by treatment with liquids, gases or vapours [D06B](#); finishing other than by liquid treatment, of yarns in warp or sheet form [D06C](#); for chemical matters, see [D06L](#), [D06M](#), [D06P](#), [D06Q](#); treatment during rope-making, apparatus for treating ropes auxiliary to rope-making [D07B](#))

**NOTE**

Attention is drawn to the note following the title of Class [D02](#).

**D02J 1/00**

**Modifying the structure or properties resulting from a particular structure; Modifying, retaining, or restoring the physical form or cross-sectional shape, e.g. by use of dies or squeeze rollers** (modifying only the surface [D02J 3/00](#))

**D02J 1/02**

- . Bulking, e.g. looping (by crimping, by curling [D02G](#))

**D02J 1/04**

- . Compacting

**D02J 1/06**

- . Imparting irregularity, e.g. slubbing or other non-uniform features, e.g. high- and low-shrinkage or strengthened and weakened sections

**D02J 1/08**

- . Interlacing constituent filaments without breakage thereof, e.g. by use of turbulent air streams

**D02J 1/12**

- . Modifying stretch/bulk properties of textured yarns or the like by after-treatment

**D02J 1/14**

- . Rendering uniform or evening non-uniform features

**D02J 1/16**

- . Rubbing or similar working, e.g. to redistribute or remove fibres

**D02J 1/18**

- . Separating or spreading

**D02J 1/20**

- . Stressing or stress-relieving, e.g. by vibration or subjection to electrostatic stress or electric discharge

**D02J 1/22**

- . Stretching or tensioning, shrinking or relaxing, e.g. by use of overfeed and underfeed apparatus, or preventing stretch ([stretch spinning D01D 5/12](#))

**D02J 1/221**

- .. {Preliminary treatments}

**D02J 1/222**

- .. {Stretching in a gaseous atmosphere or in a fluid bed}

**D02J 1/223**

- .. {Stretching in a liquid bath}

**D02J 1/224**

- .. {Selection or control of the temperature during stretching}

**D02J 1/225**

- .. {Mechanical characteristics of stretching apparatus}

**D02J 1/226**

- ... {Surface characteristics of guiding or stretching organs}

**D02J 1/227**

- .. {Control of the stretching tension; Localisation of the stretching neck; Draw-pins}

- D02J 1/228 . . {Stretching in two or more steps, with or without intermediate steps}
- D02J 1/229 . . {Relaxing (in combination with crimping [D02G 1/20](#))}

### **D02J 3/00**      **Modifying the surface**

- D02J 3/02 . by abrading, scraping, scuffing, cutting, or nicking (preliminary roughening of fibres, e.g. for spinning, [D01G 3/00](#))
- D02J 3/04 . by brushing
- D02J 3/06 . by polishing, e.g. glazing, glossing
- D02J 3/08 . . by compressing, e.g. by calendering or ironing
- D02J 3/10 . by indenting
- D02J 3/12 . by removing projecting ends of fibres
- D02J 3/14 . . by shearing
- D02J 3/16 . . by singeing
- D02J 3/18 . Treating with particulate, semi-solid, or solid substances, e.g. wax (during package formation [B65H 71/00](#); waxing yarns or the like as incidental measures during spinning or twisting [D01H 13/30](#))

### **D02J 7/00**      **Cleaning, e.g. removing dust, loose fibres, charred ends** (in combination with the shearing, singeing, or otherwise removing of projecting fibre ends [D02J 3/12](#), [D02J 3/14](#), [D02J 3/16](#))

### **D02J 11/00**      **Combinations, not covered by any one of the preceding groups, of processes provided for in such groups; Plant for carrying-out such combinations of processes**

### **D02J 13/00**      **Heating or cooling the yarn, thread, cord, rope, or the like, not specific to any one of the processes provided for in this subclass** (heating, cooling or drying during spinning or twisting [D01H](#); drying of yarns or the like, in general [F26B](#))

- D02J 13/001 . {in a tube or vessel}
- D02J 13/003 . {by contact with at least one stationary surface, e.g. a plate}
- D02J 13/005 . {by contact with at least one rotating roll}
- D02J 13/006 . {in a fluid bed (stretching in a fluid bed [D02J 1/222](#))}
- D02J 13/008 . {with elimination of fumes}